

4th Grade

Main Rangefinder 1

Your teacher
Do

Minimal problem-solving
strategies

you before you begin.
assessment.

- 1 The local zoo keepers counted their animals and found they had 4 tigers, 27 deer, 105 birds, 31 goats, 5 bears and 18 monkeys.

Minimal
development
of basic skills

How many more animals do the zoo keepers have right now? Show or explain how you found your answer.

I added all
OF the numbers

- b. How many more birds than deer do the zoo keepers have right now? Show or explain how you found your answer.

$$\begin{array}{r} 105 \\ - 27 \\ \hline 78 \end{array}$$

Lack of process
development

- c. The zoo keepers want to triple the number of goats. How many goats will they have after they triple the number? Show or explain how you found your answer.

hun

- d. The zoo keepers want to put the monkeys into two cages. How many monkeys will they put in each cage? Show or explain how you found your answer.

9 in each cage

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not choose to answer.

- 2 Jane and Sam have messy rooms. They cleaned their rooms on December 31st. Then they set up a cleaning schedule for January. Jane will clean her room every 3rd day. Sam will clean his room every 5th day.

- a. On which dates in January will Jane clean her room? Show or explain how you found your answer.

$$\begin{array}{r} 31 \\ - 3 \\ \hline 28 \end{array}$$

January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
	26	27	28	29	30	31

Sam →

← Jane

- b. On which dates in January will Sam clean his room? Show or explain how you found your answer.

$$\begin{array}{r} 31 \\ - 5 \\ \hline 26 \end{array}$$

Minimal evidence of understanding of situations

- c. Who will clean their room the most days? Show or explain how you found your answer.

Jane is 2 steps from her

- d. On which date(s) in January will they clean their rooms on the same day? Show or explain how you found your answer.

$$\begin{array}{r} 1 \\ 28 \\ 26 \\ + \\ \hline 54 \end{array}$$

- 3 Anna does chores each day after school. She feeds the animals for 20 minutes, collects eggs for 5 minutes, and cleans out the barn for 15 minutes.

a. How much time will Anna spend doing her chores? Show or explain how you found your answer.

$$\begin{array}{r} 20 \\ 5 \\ 15 \\ \hline 40 \end{array} \quad 40 \text{ minutes}$$

- b. If Anna came home from school and started on her chores at 3:25, what time should she be finished with her chores? Show or explain how you found your answer.



7:20 p.m.

Significant lack of structure

Anna has the same chores to do. If Anna wants to finish her chores by 1:30, what time should she start doing her chores? Show or explain how you found your answer.

6:00 a.m.

- 4 a. Draw and name five different geometric shapes.

because
They have the most rounded corners
two shapes are the most alike and why?

Inadequate mathematical vocabulary

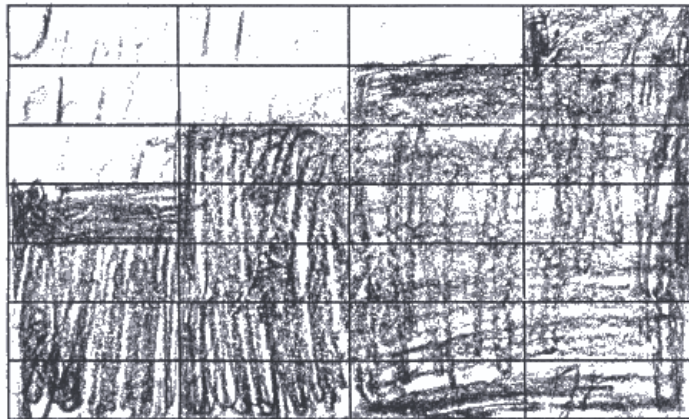
- c. Which two shapes are the most different and why?

They have
one sharp
corner

- 5 Jon asked all of the boys in his class to choose their favorite color. He recorded the responses in a notebook. The results are shown below.

Boy's Name	Color	Boy's Name	Color
James	blue	Josh	yellow
Chris	blue	Casey	red
Steve	yellow	Bob	green
Bill	blue	Tom	green
Mike	red	Vale	blue
Shawn	yellow	Ryan	yellow
Matt	blue	Jack	green

- a. Use tally marks to show the color choices the boys made.
- b. Use Jon's information to make a graph. Show the number of boys who chose each color.



Minimal use of basic
thinking skills